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Report of the 'Wollongong, University College Digital Computing
laboratory. For the Year 1970 .

BULLETIN No. 26

WOLLONGONG UNIVERSITY COLLEGE
THE UNIVERSITY OF NEW SOUTH WALES



*Report of the
Wollongong University College
Digital Computing
Laboratory*

FOR THE YEAR 1970

JULY, 1971

FIFTH ANNUAL REPORT

of the

WOLLONGONG UNIVERSITY COLLEGE

DIGITAL COMPUTING LABORATORY

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1. INTRODUCTION

Computer usage for 1970 remained steady compared to the previous year.

While the system is able to handle the small programmes of first year undergraduates it is becoming increasingly obvious that without a high speed line printer our installation is output bound. Large projects on Operations Research, Engineering and Geological correlation cannot be handled by the equipment and are being off-loaded onto larger systems in the Sydney area.

A larger amount of contemplated work on data processing, both for undergraduate instruction in Commerce subjects and for the automation of the many administrative processes in the College cannot be initiated before the acquisition of the on-line printer.

The G.E. time sharing terminal is still being used to familiarise the staff and senior students with the techniques of interactive computing and has also provided a back-up facility during peak periods. It does not however, fill the need for large direct access memory or high speed output.

2. FACILITIES

2.1 Programme Library

The write ups of the following additions to the programme library are in the computer room:

1. 1620-9-2-082 Synchronizing Traffic Signals for Maximum Band Width.
2. 1620-9-2-083 The Selection of a Cycle Length for Fixed Time Traffic Signals.
3. 1620-01-6-159 TNS, TNF, MF. Simulation Subroutines.
4. 1620-02-0-044 Algol.
5. 1620 Reference Manual: Control & Simulation Languages.
6. 1620 Reference Manual: A Digital Analog Simulator.

2.2 Stores

Use of minor plant has increased by 5% over the 1969 period.

Cards

650,000 cards were used.

Paper

About 18,000 sheets served the needs of both the computer console and the 870 Document writing system.

3. OPERATION AND USAGE

3.1 Full Time Staff

Mrs. V. Vaughan, Laboratory Attendant.

Miss L. Paine.

3.2 Operators

Continuing the policy of mainly open shop operation, additional members of the academic staff and advanced students requiring use of the facility have been trained as operators.

3.3 Computer Usage for 1970

<u>Month</u>	<u>Time Used</u>	<u>Reg. Maintenance</u>	<u>Lost Time</u>
January	132.50	-	16.45
February	157.45	4.45	2.00
March	178.55	2.00	-
April	182.10	2.00	.45
May	173.25	4.30	9.30
June	172.10	7.30	10.50
July	219.35	9.20	5.55
August	199.15	3.00	2.35
September	210.55	.45	6.35
October	189.15	4.15	3.30
November	179.05	2.00	-
December	138.35	1.45	-

4. EDUCATIONAL

4.1 Undergraduate Courses

Approximately half the usage during the term time is devoted to undergraduate instruction. The departments of Mathematics, Mechanical Engineering, Chemistry and Geology have computing sequentx in their courses. The Division of Commerce did some work on statistics.

4.2 Graduate Courses

There is continuing demand each week from the Master of Engineering Science course and Master of Operations Research.

4.3 Special Courses

A course on programming for secondary school teachers was given in second term. The course was directed towards the teaching of computing for the new High School Certificate syllabus.

4.4 Public Relations

The computer was open for display on Open Day. There has also been continued demand for demonstrations to groups of high school students.

5. RESEARCH

Higher Degree students are major users of the computer but it is also used by the staff for their private research and for projects financed from contracts. A total of just on \$1,345 has been obtained from project work.

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